Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1 (Currently Amended). A system for verifying authenticity of a ~~manufactured~~ product, comprising:

    an electronic tag attached to <u>or embedded in</u> one of said product and product packaging, said electronic tag comprising a memory storing authentication information for said product; ~~and~~

    a reader for reading said authentication information from said electronic tag to verify that said product is authentic ~~based solely on the information contained in said memory without revealing said authentication information.~~<u>; and</u>

    <u>a label attached to or printed on one of said product and product packaging having printed authentication information thereon to be verified against the authentication information stored in said memory of said electronic tag which is read by said reader;</u>

    <u>wherein said authentication information in said memory of said electronic tag is encrypted using a private key and said reader decrypts said information using a corresponding public key, and wherein a zero-knowledge protocol is used to make said authentication information resistant to duplication, whereby authenticity of said product achieved by a comparison of said authentication information read by said reader and said printed authentication information on said label.</u>

2 (Original). A system for verifying the authenticity of a manufactured product as recited in claim 1 wherein said electronic tag is a smart card.

3 (Original). A system for verifying, the authenticity of a manufactured product as recited in claim 1 wherein said electronic tag is embedded into one of said product and product packaging product.

1   4 Canceled

1   5 (Currently amended). A system for verifying the authenticity of a
2   manufactured product as recited in claim 1 further comprising a point of
3   sale machine, said reader being contained in or connected to said point of
4   sale machine containing, said reader for authenticating said product in
5   front of a consumer prior to purchase of the product.

1   6 (Original). A system for verifying the authenticity of a manufactured
2   product as recited in claim 1 wherein said reader comprises means for
3   reading said electronic tag without physically contacting said electronic
4   tag.

1   7 Canceled

1   8 (Original). A system for verifying the authenticity of a manufactured
2   product as recited in claim 1 wherein said authentication information is
3   directed to a manufacturer of the product.

1   9 (Original). A system for verifying the authenticity of a manufactured
2   product as recited in claim 1 wherein said authentication information is
3   specific to the product.

1   10 Canceled

1   11 (previously presented). A system for verifying the authenticity of a
2   manufactured product as recited in claim 9 wherein said authentication
3   information comprises one or more of product color, product shape,
4   product serial number, product weight, product routing information, and
5   product chemical composition.

1   12 (Original). A system for verifying the authenticity of a manufactured

2   product as recited in claim 9 wherein said authentication information

3   comprises a graphic image of the product.

1   13 (Original). A system for verifying the authenticity of a manufactured

2   product as recited in claim 9 wherein said authentication information

3   comprises an ownership history of the product.

1   14 Canceled

1   15 (Original). A system for verifying the authenticity of a manufactured

2   product as recited in claim 1 wherein said authentication information

3   further comprises information for authenticating said electronic tag.

1   16 (Currently Amended). A method for verifying the authenticity of a

2   ~~manufactured~~ product, comprising the steps of:

3   generating encrypted authentication information for a ~~manufactured~~

4   product using a private key, and wherein a zero-knowledge protocol is

5   used to make said encrypted authentication information resistant to

6   duplication;

7   storing said encrypted authentication information in a memory of ~~in~~

8   an electronic tag;

9   attaching said electronic tag to or embedding said electronic tag in

10   one of said ~~manufactured~~ product and ~~manufactured~~ product packaging;

11   attaching a label to or printing a label on one of said product and

12   product packaging having printed authentication information thereon to be

13   verified against the encrypted authentication information stored in said

14   memory of said electronic tag;

15   reading said encrypted authentication information from said

16   electronic tag, said reading step including decrypting said encrypted

17   authentication information using a public key corresponding to said private

18   key; and

19   verifying that said manufactured product is authentic where

20 authenticity of said product is verified by a comparison of said encrypted
21 authentication information stored in said electronic tag and said printed
22 authentication information on said label ~~based solely on the information in~~
23 ~~said electronic tag without revealing said authentication information~~.

1 17. Canceled

1 18. Canceled

1 19 (Original). A method for verifying the authenticity of a manufactured
2 product as recited in claim 16 further comprising the step of erasing said
3 authentication information from said electronic tag after reading.

1 20 (Original). A method for verifying the authenticity of a manufactured
2 product as recited in claim 16 further comprising the step of recording an
3 ownership history of said product in said electronic tag.

1 21 (Currently Amended). A method for detecting ~~manufactured~~ products
2 being sold in a parallel market, comprising the steps of:
3 generating encrypted authentication information for a ~~manufactured~~
4 product using a private key, and wherein a zero-knowledge protocol is
5 used to make said encrypted authentication information resistant to
6 duplication, said encrypted authentication information including routing
7 information for the product;
8 storing said encrypted authentication information in a memory of
9 an electronic tag;
10 attaching said electronic tag to or embedding said electronic tag in
11 one of the ~~manufactured~~ product and ~~manufactured~~ product packaging;
12 reading said encrypted authentication information from said
13 electronic tag ~~at a point of sale~~, said reading step including decrypting said
14 encrypted information using a public key corresponding to said private
15 key; and

16   verifying said routing information <u>in said encrypted authentication</u>

17   <u>information</u> matches routing information <u>at a</u> ~~of said~~ point of sale to

18   determine if said ~~manufactured~~ product is sold in a parallel market ~~based~~

19   ~~solely on the information contained in said electronic tag~~.

    22. Canceled

1   23. Canceled

1   24 (New) The method of claim 21, further comprising the step of <u>attaching</u>

2   <u>a label to or printing a label on one of said product and product packaging</u>

3   <u>having printed authentication information thereon to be verified against the</u>

4   <u>encrypted authentication information stored in said memory of said</u>

5   <u>electronic tag, said printed authentication information including printed</u>

6   <u>routing information</u>.